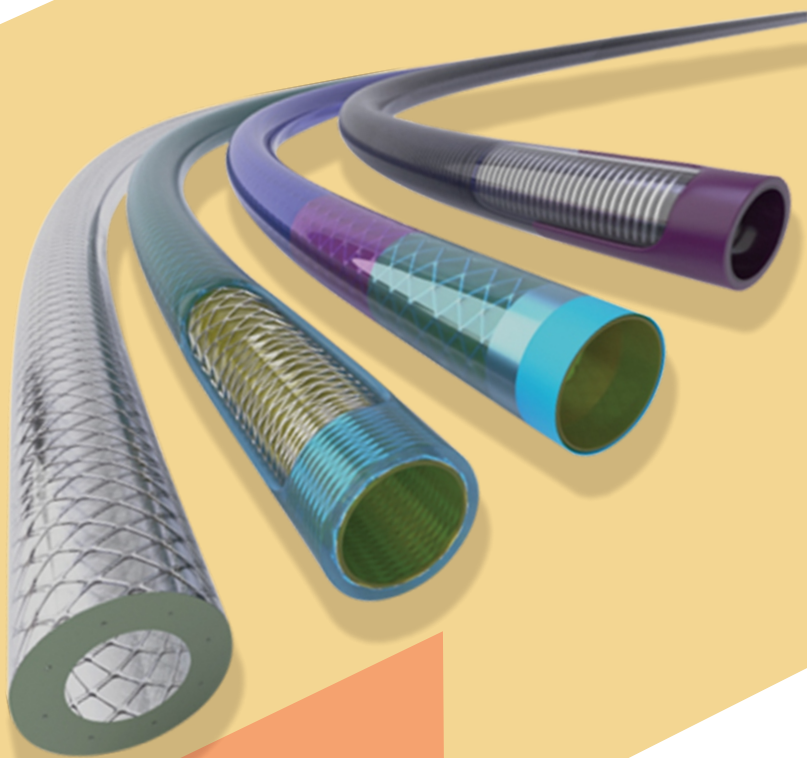




**lonyi 朗医**



# **深圳朗医科技有限公司 Lonyi Medicath Co., Ltd**

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规划图

朗医成立于2010年，是一家通过了ISO13485认证的国家高新技术企业，致力于医疗导管的研究和生产。主要业务有精密管材挤出、导管OEM/ODM及医疗器械CDMO业务，业务遍布于欧美、中东、日韩、东南亚等多个国家和地区，立足深圳，已为全球超过1200+家医疗企业提供了优质的产品与服务。

朗医核心团队超过20年的导管研发和制造经验，公司拥有GMP标准厂房5000平米，并引进国际先进的设备和加工工艺，完善的实验室检测设备，使产品质量更加精密可靠。朗医秉承“优质、创新、诚信、共赢”的经营理念，坚持“对外成就客户，对内成就团队”的核心价值观，实现和客户共同的理想。

Founded in 2010, Lonyi is a national high-tech enterprise that has got ISO13485 certificate and is committed to the R & D and production of medical catheters. Lonyi has main businesses include tube extrusion, catheter OEM / ODM service and medical devices CDMO service, which has expanded to Asia, Europe, America, Middle East and other countries and regions. Based in Shenzhen, Lonyi has provided high-quality products and services to more than 1200 medical enterprises around the world.

Lonyi's core team has more than 20 year of experience in catheter R & D and manufacturing. Lonyi has the GMP standard workshop of total 5000 square meters, introduces international advanced equipments and processing technology, and a series of testing equipments make the products more precise and reliable. Lonyi adheres to the business philosophy of "High quality, Innovation, Good faith, Mutual benefit", and the core value of "Achieving customers externally and achieving team internally", realizes the common ideal with customers.

## 行业二十年沉淀 铸就品牌辉煌

- 2022**
- 荣获ICMD 梦工厂·星耀大奖  
金属编织导管产量突破20万根，产能持续扩张
- 2021**
- 厂房扩建至5000平方米，新建GMP标准万级车间  
独立成立安德编织管业务公司；承接CDMO业务
- 2020**
- 通过TUV莱茵认证13485:2016体系认证  
朗医累积服务全球客户超过1200家
- 2019**
- 第六代导管端部成型机上市，引领尖端机市场
- 2017**
- 3月 被坪山新区认定生物医药企业  
7月 获得深圳高新技术企业证书  
11月 获得国家高新技术企业证书
- 2016**
- 顺利通过ISO13485:2003医疗器械质量管理体系认证
- 2014**
- 耐高压1500PSI高压编织导管研发成功，开始量产
- 2013**
- 因扩产新建GMP标准洁净车间1000平方米，含十万级洁净车间1000平米。
- 2012**
- 洁净车间建立完成，年产600万根精密导管
- 2011**
- 为覆盖更多医疗市场成立朗医，专注精密挤出及导管代工业务
- 2010**
- 美国引进技术，上世纪90年代由海归博士从美国引进精密挤出业务
- 源起**

深圳朗医科技有限公司 2011-2021



## 核心价值观模型

### 核心价值观释义

客户第一：态度优先，效率跟上。

拥抱变化：迎接变化，勇于创新。

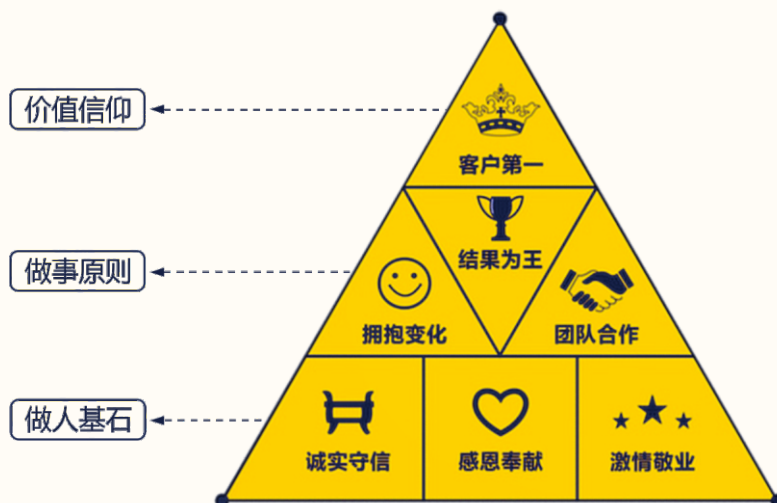
团队合作：共享共担，共创辉煌。

结果为王：以终为始，捍卫结果。

诚实守信：诚实正直，信守承诺。

激情敬业：永不放弃，爱岗敬业。

感恩奉献：感恩惜福，乐于奉献。



## 人才理念



以人为本、人力资源为第一资源、人才为第一资本的人才战略思想。

坚持德才兼备的用才原则，坚持品德、学识、能力、业绩、创新相统一的人才标准。

以事业聚集人才、以发展激励人才、以制度稳定人才、以待遇吸引人才、已开发培训造就人才。



《高新技术企业证书》



- 《EC Certificate》认证证书
- 《ISO13485:2016》认证证书
- 万级洁净车间检测报告
- 《一种抗折鼻饲管》专利证书

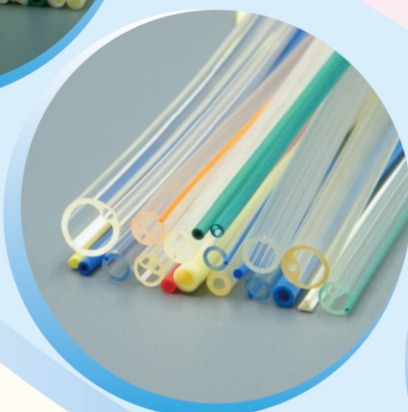
- 《一种双腔胃管》专利证书
- 《一种手术用管》专利证书
- 《一种可弯曲导引鞘管》专利证书
- 《一种Ⅲ类输尿管支架》专利证书



- 第六代导管端部成型机操作系统
- 医疗导管高精度打孔操作系统
- 导管360度环形印刷系统
- 医疗导管变径牵引技术控制系统



已累积获得40多项国家知识产权，多项发明专利



🌀 挤出形状：单腔管、双/多腔管、双/多排管、双/三色管、双/多层管、变径管、异型管、薄壁管、微量管、包覆管、编织加强管、螺旋加强管

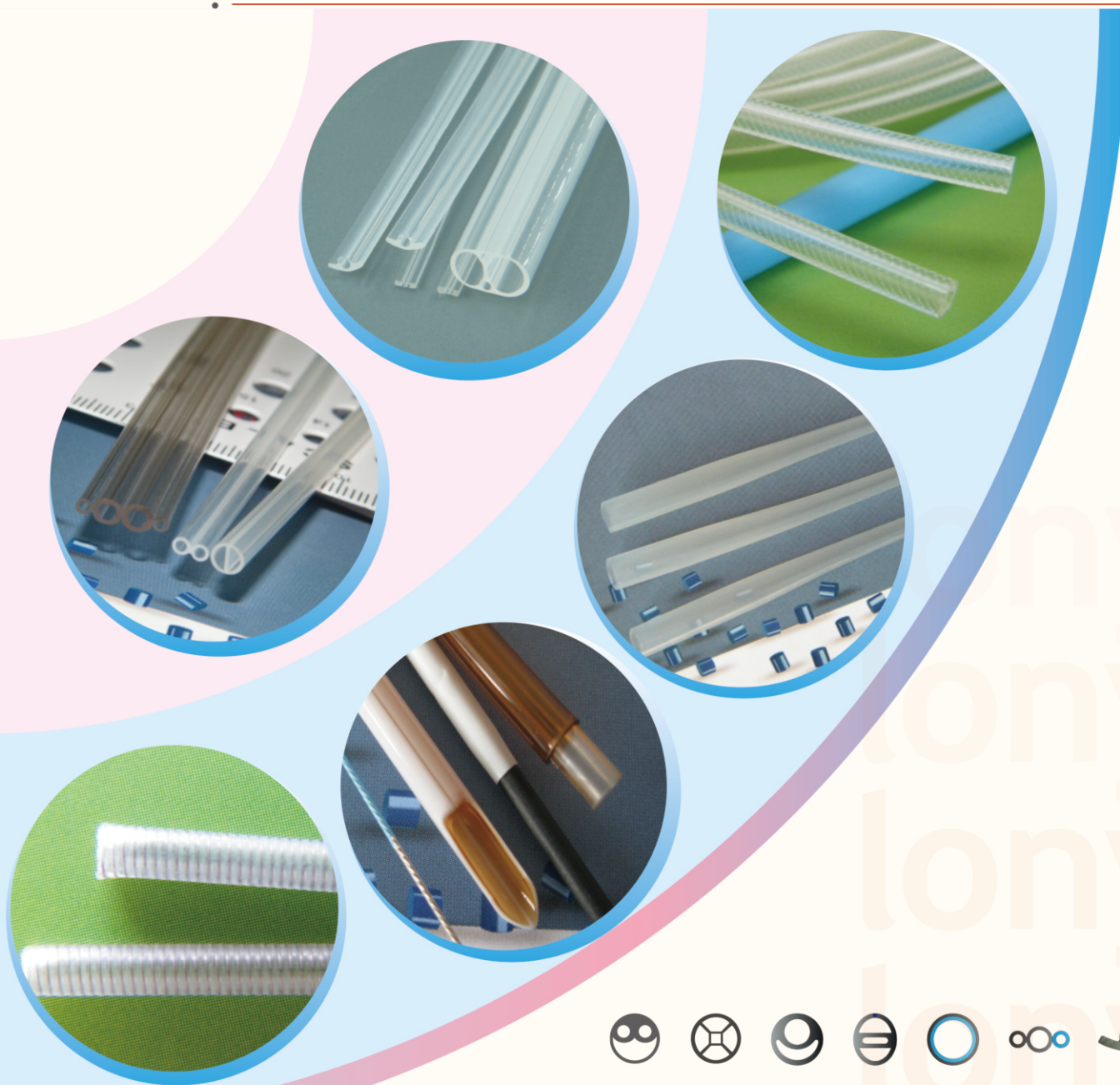
🌀 可选材料：TPU、TPE、PE、PP、PA、PEBAX、PVC、PC、PETG、PS、FEP、PVDF、PFA、PTFE、ETFE、PEEK、PPSU等；

🌀 加工范围：外径0.3mm~20mm 壁厚0.05mm~3.0mm

🌀 尺寸公差：±0.02mm~0.10mm

🌀 可选颜色：任意色

🌀 扩展性能：整体显影、显影线



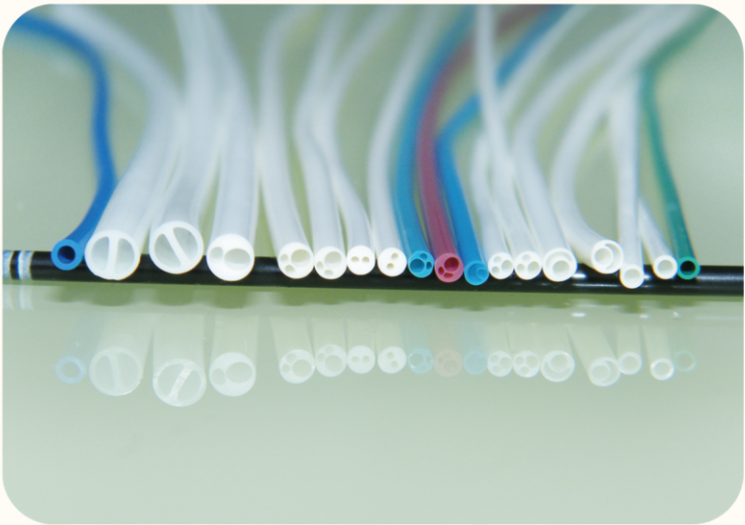
- ⑧ Extrusion shape: Single-lumen tube, Multi-lumen tube, Multi-row tube, Co-extrusion tube Variable diameter tube Multi-layer tube, Braided tube, Special-shaped tube, Thin-walled tubing, Micro tube, Spiral reinforced tube, Braided reinforced tube, etc
- ⑧ Processing material: TPU, TPE, PE, PP, PA, PEBAX, PVC, PC, PETG, PS, FEP, PVDF, PFA, PTFE, ETFE, PEEK, PPSU, etc
- ⑧ Processing range: OD 0.012"~0.787", WT 0.002"~0.118"
- ⑧ Tolerance:  $\pm 0.0008"$ ~ $0.004"$
- ⑧ Color: Transparent, natural, any other color
- ⑧ Radiopaque mode: Overall radiopaque, Radiopaque line

PU（聚氨酯）显影管

采用Lubrizol、Covestro、BASF等医疗级TPU原料，具有良好的生物相容性，优异的柔韧性、耐磨性和耐水解性，可用环氧乙烷和伽马射线照射来灭菌。

引进美国精密挤出设备和技术生产，内外径公差最小可达到±0.02mm，管体一致性强。

☞ 主要应用：中心静脉导管、血液透析导管、PICC导管、J型导管、胃肠营养管、各种引流管等



高压连接管

PU (Polyurethane) radiopaque tube

Using medical grade TPU raw materials from Lubrizol, Covestro, BASF with good biocompatibility, excellent flexibility, abrasion resistance and hydrolysis resistance. Ethylene oxide and gamma rays can be used to sterilize. With American precision extrusion equipments and technology, the minimum tolerance of OD/ID can reach ±0.0008", and the consistency of the tube body is good.

☞ Main applications: CVC, HDC, PICC, double J catheter, feeding tube, various drainage tubes, etc

常用规格/Common specification	
单腔(Single lumen)	20G/18G/16G/14G 3Fr/4Fr/5Fr/6Fr/7Fr/8Fr/10Fr/12Fr/14Fr/16Fr
双腔(Double lumen)	4Fr/5Fr/7Fr/8Fr/10Fr/12Fr/14Fr
三腔(Triple lumen)	5.5Fr/7Fr/8.5Fr 11.5Fr/12Fr
四腔(Four lumen)	8.5Fr
亦可来图来样定制管材规格 Other specifications of tube can be customized according to drawing or sample	

## 高压连接管

采用医疗级TPU原料，中间纤维丝编织加强复合而成，常用耐压1200PSI，最高耐压1800PSI。可选装360度旋转高压接头。

- ☞ 通用规格：OD3.65mm × ID1.80mm，OD4.78mm × ID2.40mm
- ☞ 常用长度：30CM/60CM/90CM/120CM/150CM/180CM/200CM
- ☞ 主要应用：压力泵、高压连接管、骨科注射高压管、抽吸导管等



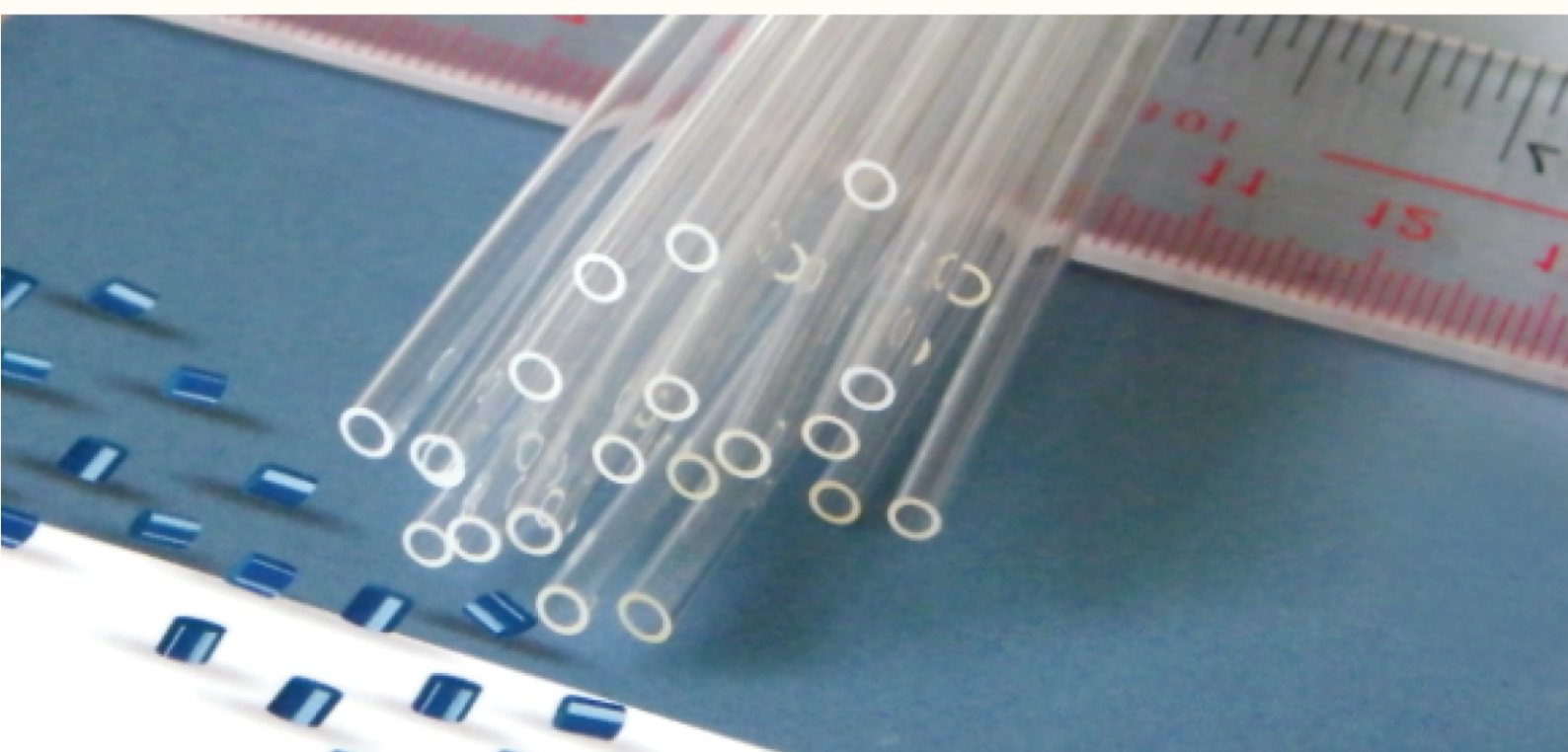
## High pressure connecting tube

Composite of medical grade TPU raw materials and nylon braided filament, common withstand 1200 PSI, maximum withstand 1800 PSI. Matching with 360 degree rotary high pressure connector.

- ☞ Common specifications: 0.144"×0.071", 0.188"×0.094"
- ☞ Common lengths: 12", 24", 35", 47", 59", 71", 79"
- ☞ Common applications: Inflation device, high pressure extension tube, high pressure injection tube for orthopedics, aspiration catheter, etc

## 延长管

采用医疗级TPU、PVC、PE、TPE、EVA等原料挤出成型，可定制各种规格或颜色的延长管，可选装鲁尔接头。



## Extension tube

Extruding with medical grade TPU, PVC, PE, TPE, EVA raw materials, various specifications or colors of extension tube can be customized and luer connector is optional.

## PA ( 尼龙 ) 管

采用PA6、PA66、PA11、PA12、PEBAX (PEBA) 原料,具有良好的生物相容性,良好的回弹性、抗疲劳性和化学稳定性。硬度25D~80D可选,可用环氧乙烷和伽马射线照射来灭菌。

引进美国精密挤出设备和技术生产,内外径公差最小可达到 $\pm 0.02\text{mm}$ ,管体一致性强。

适用于各种介入导管、球囊导管、腔镜导管等



## PA (Nylon) tube

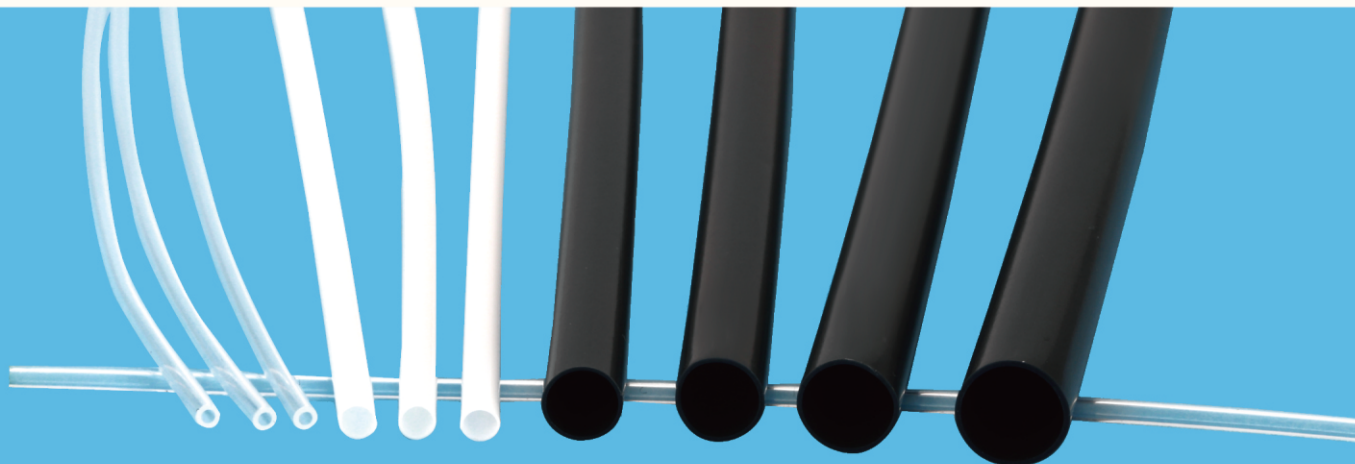
Using raw materials of PA6, PA66, PA11, PA12, PEBAX(PEBA) with good biocompatibility, good resilience, fatigue resistance and chemical stability, hardness range from 25D~80D. Ethylene oxide and gamma rays can be used to sterilize. With American precision extrusion equipments and technology, the minimum tolerance of OD/ID can reach  $\pm 0.0008"$ , and the consistency of the tube body is good.

适用于各种介入导管、球囊导管、腔镜导管等

## 氟塑料管

采用进口FEP、PFA、PVDF、PTFE等含氟原材料，具有良好的生物相容性，极低的摩擦系数，优于常规材料的耐高温性和超强耐化学性能。

☞ 主要应用：导管鞘管、可撕开鞘管、器械通道等介入导管等



## Fluoroplastic tube

Using imported fluorine-containing raw materials such as FEP, PFA, PVDF and PTFE with good biocompatibility, extreme low friction coefficient, high temperature resistance and super chemical resistance.

☞ Main applications: Catheter sheath, tearable sheath and other interventional catheters, etc

## PEEK管

采用进口PEEK原材料，具有超高的机械强度、耐高温、耐酸碱、耐水解、耐磨、耐疲劳、耐辐照及良好的电性能。

🌀 主要应用：各种医疗支撑导管、绝缘导管、输送器、内窥镜、相关仪器设备用等



## PEEK tube

Imported PEEK raw materials with ultra-high mechanical strength, high temperature resistance, high acid resistance, high alkali resistance, hydrolysis resistance, abrasion resistance, fatigue resistance, radiation resistance and good electrical properties.

🌀 Main applications: Various medical supporting catheters, Insulating catheters, endoscopes, etc

## 钨管

采用TPU、PA、PEBAX等原材料，具有良好生物相容性，优异的显影效果。

☞ 主要应用：导丝、指引导管、引流导管等介入导管等



## Tungsten tube

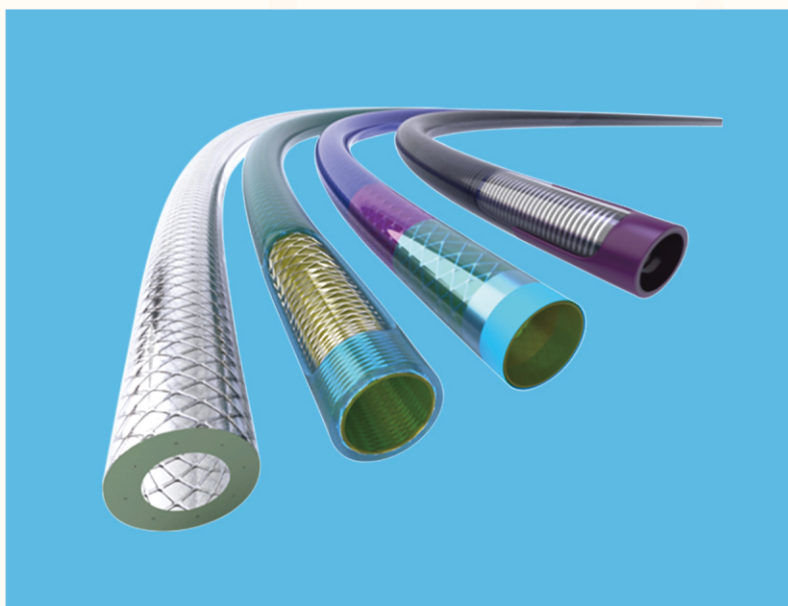
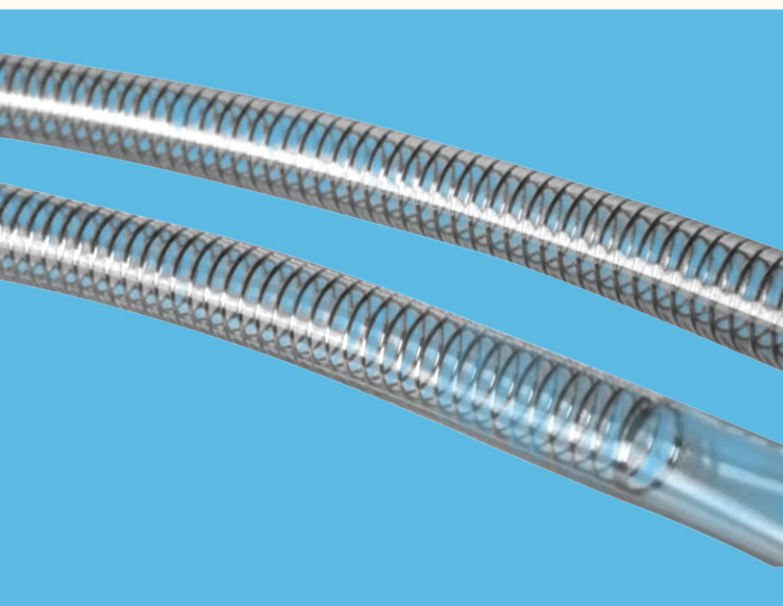
Made by TPU, PA or PEBAX with tungsten, having good biocompatibility and excellent radiopaque effect.

☞ Main applications: Guide wire and Interventional catheters such as Guiding catheter, Drainage catheter, etc

## 钢丝加强管

采用304钢丝加医用高分子材料复合而成，螺旋加强导管能有效防止导管打折现象；编织加强导管能有效增加导管抗压能力。

- ④ 极大的增强管材耐压能力的同时可降低管壁厚度
- ④ 增强的扭矩能力和抗折能力
- ④ 抗塌陷和良好的推送能力



## Steel wire reinforcing tube

Using 304 steel wire and medical grade raw materials, spiral reinforced catheter can effectively prevent catheter bending, braiding reinforced catheter has good deformation resistance.

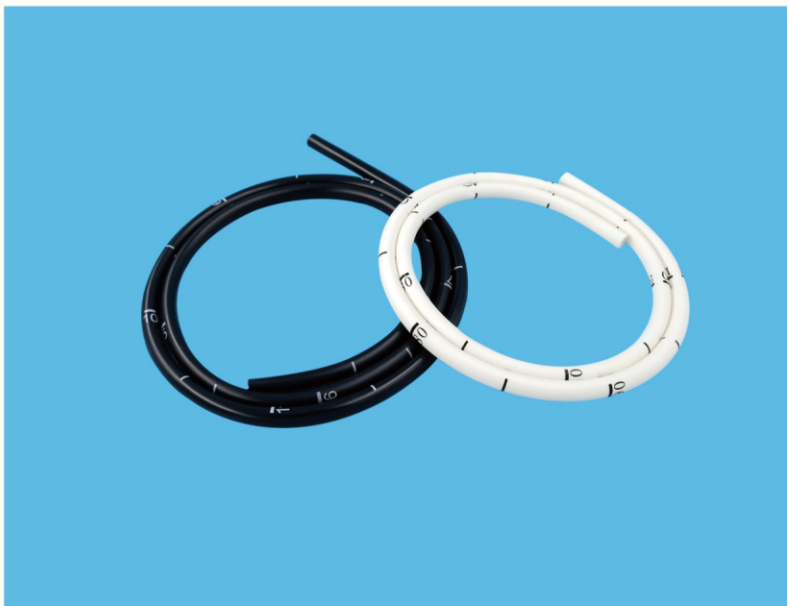
- ④ It can greatly enhance the pressure resistance and reduce the wall thickness of the tubing at the same time
- ④ Enhanced torque and bending resistance
- ④ Anti-collapse and good push capability

## 插入管（编织管）

采用医疗级PEBAX+304编织、TPU+304编织、PEBAX、PA、TPU、PVC等材料，中间层可做不锈钢编织结构，具有良好的抗折性能。

☞ 通用规格：OD2.4mm/2.8mm/3.6mm/3.8mm/4.0mm/4.8mm/5.0mm/5.2mm/10mm等，其他可定制

☞ 主要应用：用于内窥镜插入段



## Insert tube (Braided tube)

Medical grade PEBAX + 304 braid, TPU + 304 braid, PEBAX, PA, TPU, PVC, etc. The middle layer can be made of stainless steel braided structure, with good folding resistance.

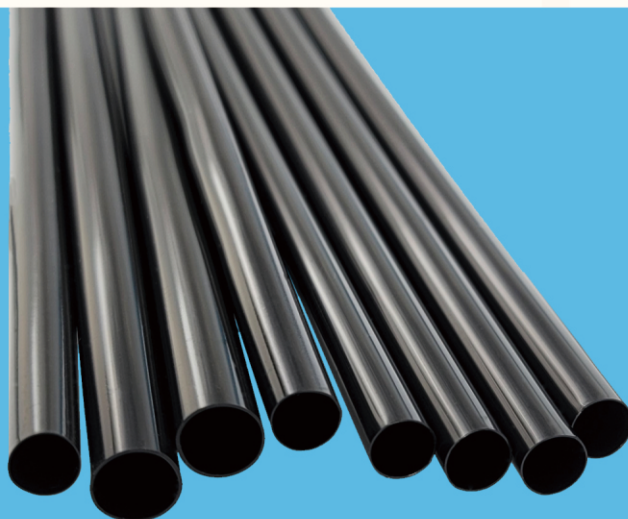
☞ General OD: 0.094", 0.11", 0.142", 0.15", 0.157", 0.189", 0.197", 0.205", 0.394" or customization

☞ Application: For endoscope insertion section

## 蛇骨管（蛇骨橡皮、弯曲橡皮）

采用医疗级TPU、硅胶材料制成，具有良好的柔韧性能和耐磨性能。

- ☞ 通用规格：可按要求定制
- ☞ 主要应用：用于内窥镜插入管前段蛇骨段外层



## Snake bone sleeve (Snake bone tube, Elbow tube)

Made of medical grade TPU or silicone, it has good flexibility and wear resistance.

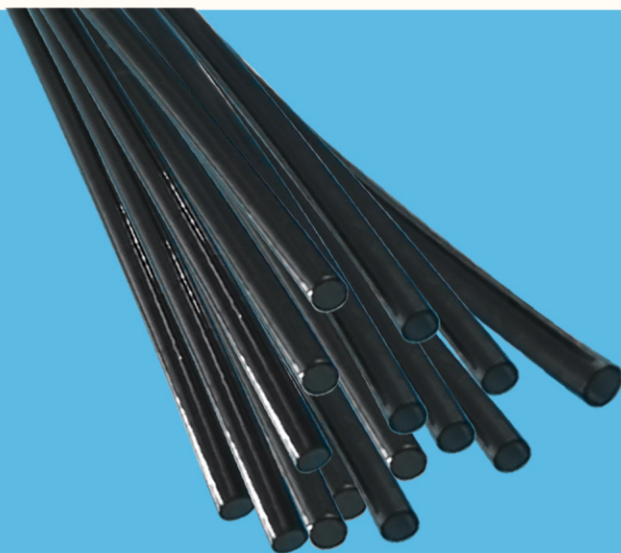
- ☞ General specifications: can be customized as required
- ☞ Application: For the outer layer of the snake bone section in front of the endoscope insertion tube

## 光纤套管(超薄壁管)

采用医疗级TPU、TPE等材料，超薄壁厚减少空间的占用，柔韧性能好，耐磨性能佳。

☞ 通用规格：OD1mm左右，或可按要求定制

☞ 主要应用：用于内窥镜光纤套管



## Fibre-optical sleeve (Ultra-thin wall tube)

Medical grade TPU, TPE or other materials, ultra-thin wall thickness to reduce the occupation of space, good flexibility, good wear resistance.

☞ General specifications: OD 0.039", or can be customized as required

☞ Application: Optical fiber sleeve for endoscope

## 通道管（钳道管）

采用医疗级PTFE、PE、PEBAX等材料制成，具有良好的润滑性能及低摩擦系数，利于器械活动和水路的进出。

- ☞ 通用规格：可按要求定制
- ☞ 主要应用：用于内窥镜插入管内部通道



## Working Channel tube (Clamp tube)

Made of medical grade PTFE, PE, PEBAX, and other materials, it has good lubrication performance and low friction coefficient, which is conducive to the movement of the instruments and the entry and exit of the waterway.

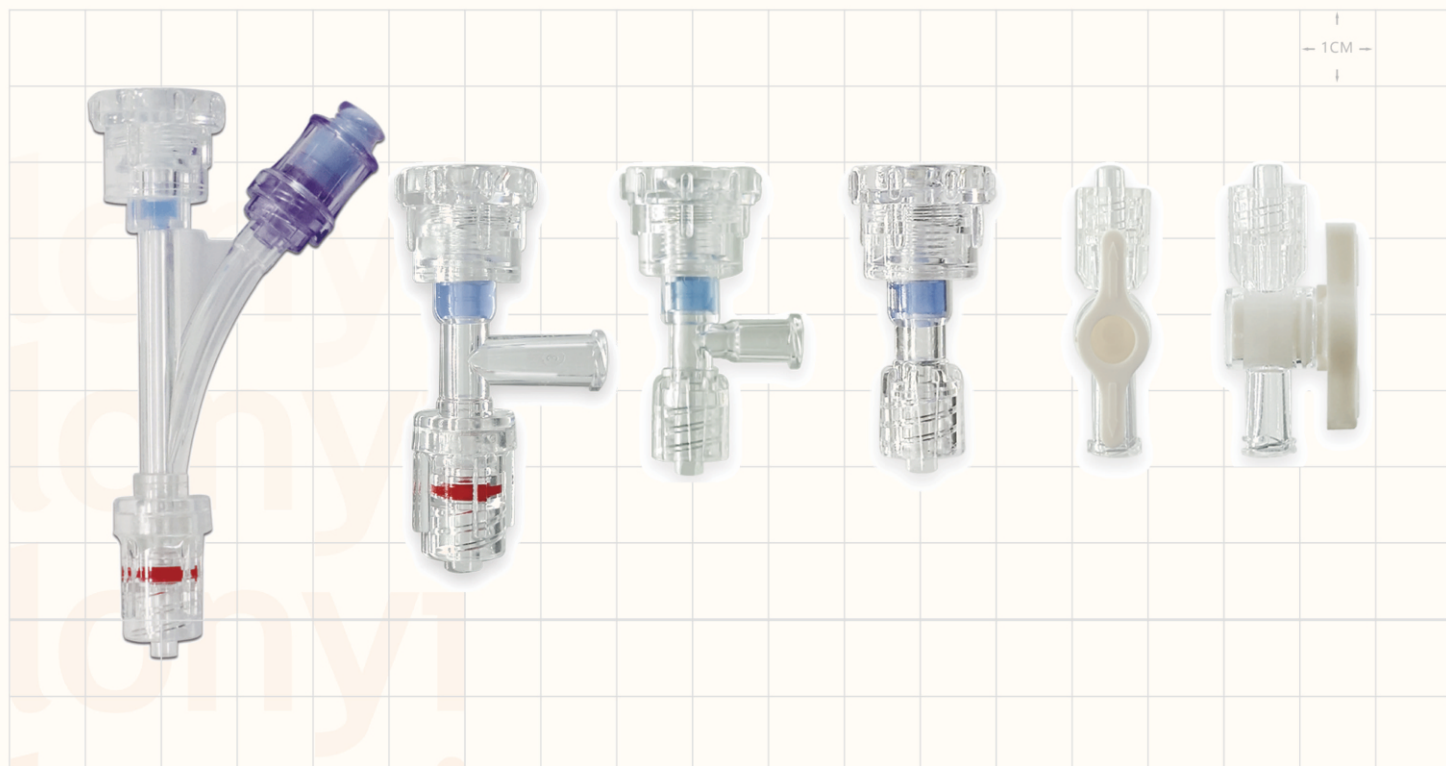
- ☞ General specifications: can be customized as required
- ☞ Application: As an internal channel for endoscope insertion tube

## 锁定阀（T型阀、直通阀）

用于内窥镜外部器械通道，旋钮式调节内孔大小便于锁定器械，侧面鲁尔接口可实现更多功能，360度可旋转接头更方便操作。

☞ 通用规格：9FR

☞ 材质：PC



## Locking valve (T-valve, Through valve)

It is used for the external instrument channel of endoscope, the knob adjusts the size of the inner hole to lock the instruments, the side luer connector can achieve more functions, and the 360-degree rotatable connector is more convenient to operate.

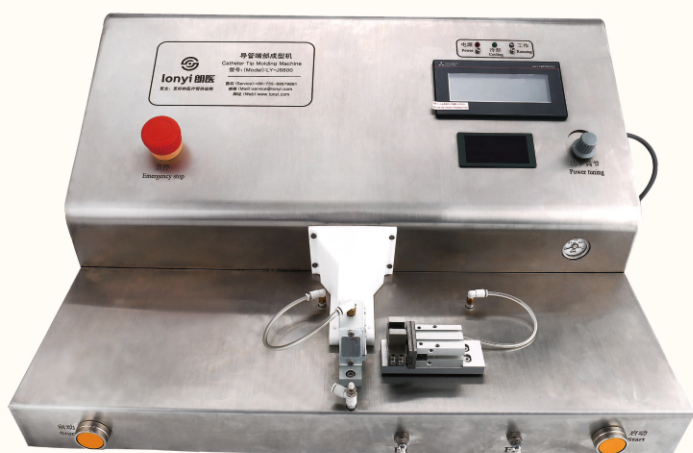
☞ General specification: 9FR

☞ Material: PC

## 导管端部成型机

LY-J6800 导管端部成型机是朗医推出的第六代导管尖端成型设备。全新一代技术，彻底抛弃烧线圈的老技术。集风冷水冷一体化设计，稳定性提升50%，温度提高300%以上。可变频控制超高频输出系统为不同的尖端成型或焊接的加工以及组件连接完成各种加工任务。

- ☞ 设备适用：导管尖端成型、导管封头、导管端部倒角、扩张管成型、导管软头成型、鞘管成型、管材对接、  
管材搭接、收缩管径、显影环放置、接头焊接等
- ☞ 常见产品应用：中心静脉导管软头尖端焊接成型、血液透析导管软头尖端焊接成型、引流导管软尖端成型、  
引流导管硬尖端成型、导管鞘导角、扩张管尖端成型、PICC导管尖端成型、麻醉导管焊软头成型等
- ☞ 适用材料：低温热塑性材料，如 PP、PE、PVC、TPU、PA、PEBAX、PC、TPE、ABS等  
高温热塑性材料，如 FEP、PFA、PTFE、PEEK 等



L 60cm W 53cm H 26cm



## Catheter tip forming machine

LY-J6800 catheter tip forming machine is the sixth generation equipment for tip processing launched by Lonyi. Using the newest technology, it can basically avoid burnout of heating coil. The integrated design of air cooling and water cooling increase it's stability by 50% and variable frequency control system help to increase the temperature by more than 300%.

- ☞ Equipment used: Catheter tip forming, catheter tip sealing, catheter tip chamfering, dilator tip forming, catheter soft tip molding, sheath tip forming, catheter welding, balloon welding, catheter diameter contraction, marker band embedding, joint welding, etc
- ☞ Common product applications: Soft tip welding of CVC, soft / hard tip forming of drainage catheter, soft tip welding and forming of anesthetic catheter, soft tip welding of HDC, chamfering of sheath tubing, tip forming of dilator and tip forming of PICC, etc
- ☞ Applicable materials: Low temperature thermoplastics materials, such as PP, PE, PVC, TPU, PA, PEBAX, PC, TPE, ABS, etc.  
High temperature thermoplastic materials, such as FEP, PFA, PTFE, PEEK, etc

## 导管打孔机

LY-Z3390导管打孔机是朗医推出的第三代导管打孔机，采用高精度控制器，带有自动排屑功能。

- 设备适用：圆孔、椭圆孔、对穿孔、单边孔、方孔、异型孔等
- 常见应用：中心静脉导管、透析导管、双J管、三腔胃管、鼻胆引流管、胸腹腔引流管、其他各种引流管等
- 适用材料：PVC、TPU、PP、PE、PA、PEBAX、TPE、硅胶等
- 加工范围：1mm-15mm



L 26cm W 35cm H 27cm

## Catheter drilling machine

LY-Z3390 catheter drilling machine is the third generation equipment for tubing punching launched by Lonyi. It adopts high precision controller and has the function of automatic chip removal.

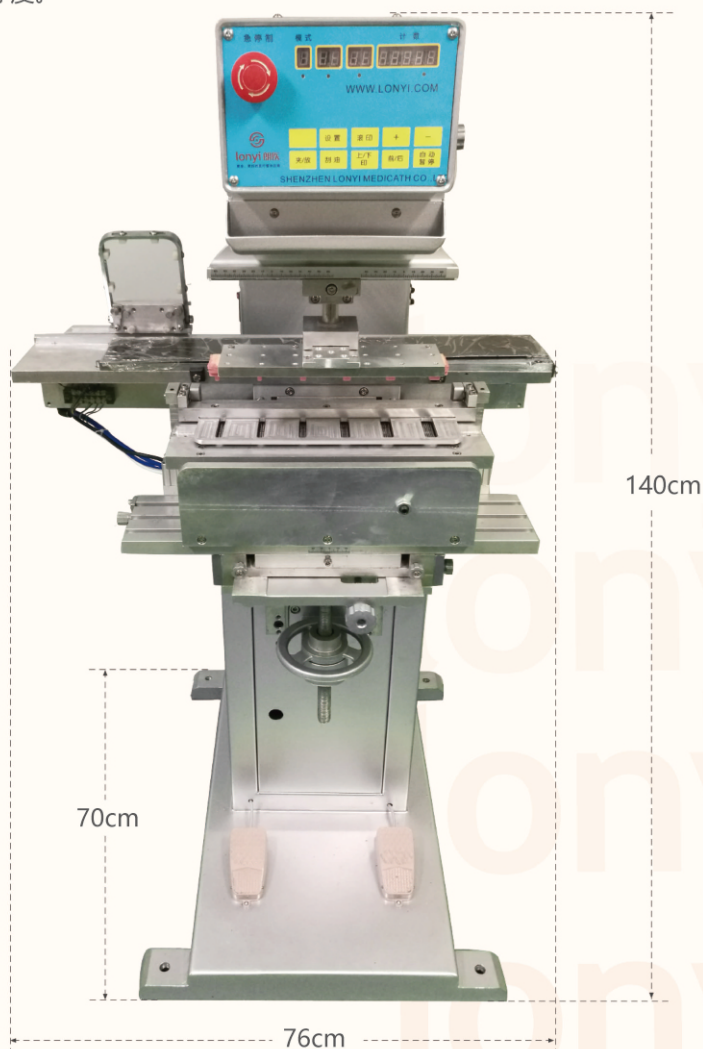
- Equipment used: Round hole, elliptical hole, side hole, square hole, irregular hole, etc
- Common applications: CVC, dialysis catheter, double J stent, triple-lumen gastric catheter, nasobiliary drainage tube, and various drainage catheters
- Applicable materials: PVC, TPU, PP, PE, PA, PEBAX, TPE, Silicone, etc
- Processing range: 0.039" ~ 0.59"

## 医疗导管移印机

采用油墨式，节约油墨的同时最大化保证环境的洁净度。

可选配360度环形印刷。

适用于各种导管或手柄上的刻度或标记印刷



L 76cm W 70cm H 140cm

## Catheter printing machine

Ink cup type is adopted to save ink and maximize the cleanliness of the environment.

360 degree circular printing is the biggest feature of this machine.

It is suitable for marking printing on various catheters or handles



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